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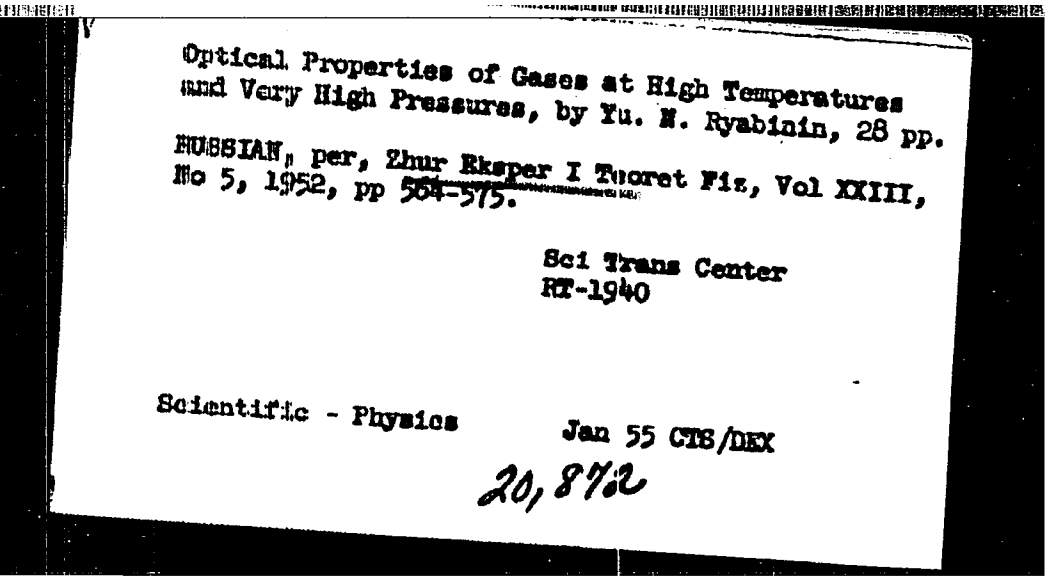

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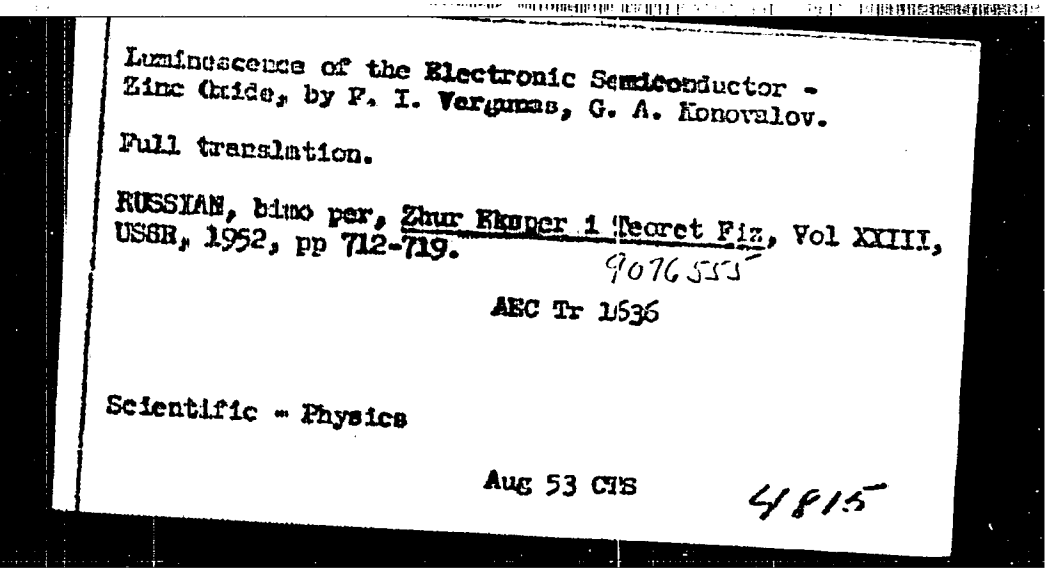

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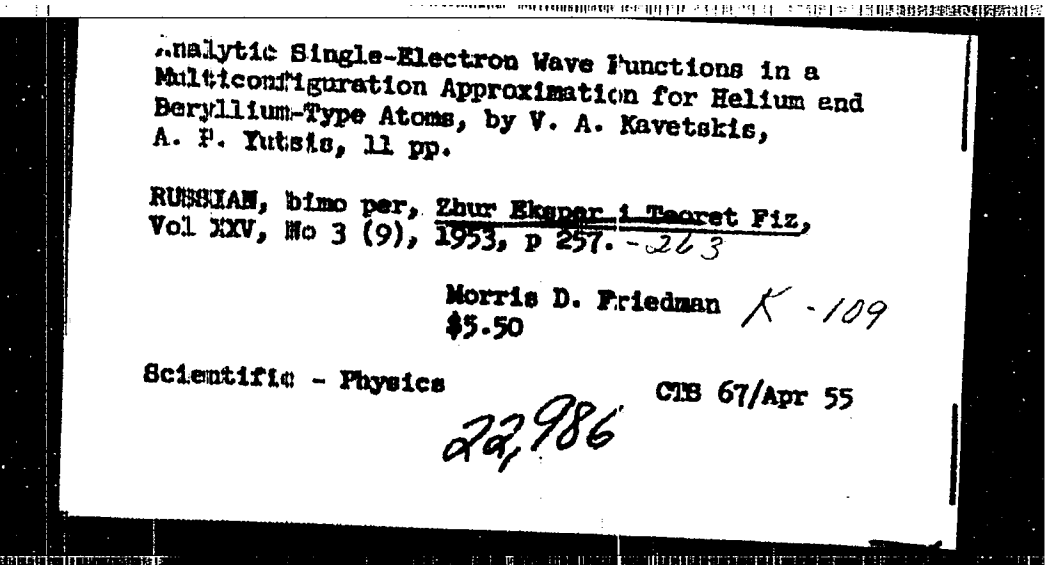

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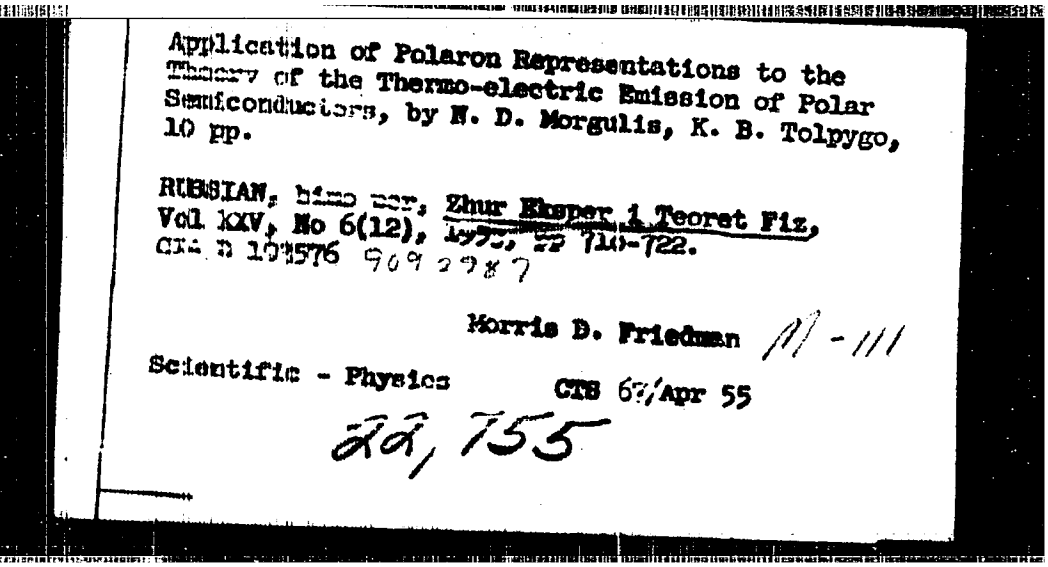

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DESCRIPTORS: *Nuclei, *Gamma rays, Nuclear moments, *Quadrupole moments, *Dipole moments, Excitation, Energy, Quantum mechanics, Atomic properties.

The order of magnitude of the matrix elements of dipolar and quadrupolar radiation is evaluated and it is explained why the intensity of the corresponding transitions (with energy around 1 Mev) possess the same order of magnitude. For energies > 1 Mev the intensity of the dipolar transitions must be much greater than the intensities of the quadrupolar. (Author)
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DESCRIPTORS: *Ion bombardment, Ion beams, *Secondary emission, Measurement, Targets, Measuring devices (Electrical and electronic), *Oscillographs, Modulation, Circuits.

The deficiencies of the present methods for investigating the secondary emission under the effect of the ionic impact against the target, are discussed. Oscillographic
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